

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/579,203  
Source: TFUSO  
Date Processed by STIC: 03/01/2007

# ***ENTERED***



IFWO

## RAW SEQUENCE LISTING

DATE: 03/01/2007

PATENT APPLICATION: US/10/579,203

TIME: 14:46:21

Input Set : N:\efs\03\_01\_07\10579203\_efs\2902076\_3\_SequenceListing.txt

Output Set: N:\CRF4\03012007\J579203.raw

3 <110> APPLICANT: Klinikum der Universitaet Muenchen  
 4 Strasburger, Christian J.  
 6 <120> TITLE OF INVENTION: Leptin Antagonist and Method for Quantitative Measurement of  
 7 Leptin  
 9 <130> FILE REFERENCE: 2902076.3  
 11 <140> CURRENT APPLICATION NUMBER: US 10/579,203  
 12 <141> CURRENT FILING DATE: 2006-05-12  
 14 <150> PRIOR APPLICATION NUMBER: PCT/EP2004/013043  
 15 <151> PRIOR FILING DATE: 2004-11-17  
 17 <150> PRIOR APPLICATION NUMBER: Foreign National Application  
 18 <151> PRIOR FILING DATE: 2003-11-17  
 20 <160> NUMBER OF SEQ ID NOS: 13  
 22 <170> SOFTWARE: PatentIn version 3.4  
 24 <210> SEQ ID NO: 1  
 25 <211> LENGTH: 272  
 26 <212> TYPE: PRT  
 27 <213> ORGANISM: Mus musculus  
 30 <220> FEATURE:  
 31 <221> NAME/KEY: misc\_feature  
 32 <222> LOCATION: (1)..(1)  
 33 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid  
 35 <220> FEATURE:  
 36 <221> NAME/KEY: misc\_feature  
 37 <222> LOCATION: (239)..(240)  
 38 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid  
 40 <220> FEATURE:  
 41 <221> NAME/KEY: misc\_feature  
 42 <222> LOCATION: (246)..(246)  
 43 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid  
 45 <220> FEATURE:  
 46 <221> NAME/KEY: misc\_feature  
 47 <222> LOCATION: (249)..(249)  
 48 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid  
 50 <220> FEATURE:  
 51 <221> NAME/KEY: misc\_feature  
 52 <222> LOCATION: (261)..(261)  
 53 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid  
 55 <400> SEQUENCE: 1  
 W--> 57 Xaa His Asn Pro Ile Pro Met Pro Pro Ala Ala Ala Gly Leu Leu Leu  
 58 1 5 10 15  
 61 Leu Ala Ala Gln Pro Ala Met Ala Glu Leu Val Met Thr Gln Ser Pro  
 62 20 25 30  
 65 Lys Phe Met Ser Thr Ser Ile Gly Asp Arg Val Asn Ile Thr Cys Lys

CPg-6)

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```

66          35          40          45
69 Ala Thr Gln Asn Val Arg Thr Ala Val Thr Trp Tyr Gln Gln Lys Pro
70          50          55          60
73 Gly Gln Ser Pro Gln Ala Leu Ile Phe Leu Ala Ser Asn Arg His Thr
74 65          70          75          80
77 Gly Val Pro Ala Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr
78          85          90          95
81 Leu Thr Ile Asn Asn Val Lys Ser Glu Asp Leu Ala Asp Tyr Phe Cys
82          100          105          110
85 Leu Gln His Trp Asn Tyr Pro Leu Thr Phe Gly Ser Gly Thr Lys Leu
86          115          120          125
89 Glu Ile Lys Arg Ala Asp Ala Ala Pro Thr Val Ser Ile Phe Pro Pro
90          130          135          140
93 Ser Ser Glu Gln Leu Thr Ser Gly Gly Ala Ser Val Val Cys Phe Leu
94 145          150          155          160
97 Asn Asn Phe Tyr Pro Lys Asp Ile Asn Val Lys Trp Lys Ile Asp Gly
98          165          170          175
101 Ser Glu Arg Gln Asn Gly Val Leu Asn Ser Trp Thr Asp Gln Asp Ser
102          180          185          190
105 Lys Asp Ser Thr Tyr Ser Met Ser Ser Thr Leu Thr Leu Thr Lys Asp
106          195          200          205
109 Glu Tyr Glu Arg His Asn Ser Tyr Thr Cys Glu Ala Thr His Lys Thr
110          210          215          220
113 Ser Thr Ser Pro Ile Val Lys Ser Phe Asn Arg Gly Glu Cys Xaa Xaa
114 225          230          235          240
117 Ser Arg Val Lys Arg Xaa Gln Ser Xaa Gly Gly Pro Gly Thr Pro Ile
118          245          250          255
121 Arg Pro Ile Gly Xaa Pro Tyr Tyr Asn Ser Leu Gly Gly Gly Phe Gln
122          260          265          270
125 <210> SEQ ID NO: 2
126 <211> LENGTH: 818
127 <212> TYPE: DNA
128 <213> ORGANISM: Mus musculus
131 <220> FEATURE:
132 <221> NAME/KEY: misc_feature
133 <222> LOCATION: (1)..(1)
134 <223> OTHER INFORMATION: n is a, c, g, or t
136 <220> FEATURE:
137 <221> NAME/KEY: CDS
138 <222> LOCATION: (3)..(818)
140 <220> FEATURE:
141 <221> NAME/KEY: misc_feature
142 <222> LOCATION: (3)..(3)
143 <223> OTHER INFORMATION: n is a, c, g, or t
145 <220> FEATURE:
146 <221> NAME/KEY: misc_feature
147 <222> LOCATION: (783)..(783)
148 <223> OTHER INFORMATION: n is a, c, g, or t
150 <220> FEATURE:

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151 <221> NAME/KEY: misc_feature
152 <222> LOCATION: (818)..(818)
153 <223> OTHER INFORMATION: n is a, c, g, or t
155 <400> SEQUENCE: 2
W--> 156 na ngt cat aat cca ata cct atg cct acg gca gcc gct gga ttg tta      47
157   Xaa His Asn Pro Ile Pro Met Pro Thr Ala Ala Ala Gly Leu Leu
158   1      5      10      15
160 tta ctc gct gcc caa cca gcc atg gcc gag ctc gtg atg acc cag tct      95
161 Leu Leu Ala Ala Gln Pro Ala Met Ala Glu Leu Val Met Thr Gln Ser
162   20      25      30
164 cca aaa ttc atg tcc aca tca ata gga gac agg gtc aat atc acc tgc      143
165 Pro Lys Phe Met Ser Thr Ser Ile Gly Asp Arg Val Asn Ile Thr Cys
166   35      40      45
168 aag gcc act cag aat gtt cgt act gct gtt acc tgg tat caa cag aaa      191
169 Lys Ala Thr Gln Asn Val Arg Thr Ala Val Thr Trp Tyr Gln Gln Lys
170   50      55      60
172 cca ggg cag tct cct caa gca ctg att ttc ttg gca tcc aac cgg cac      239
173 Pro Gly Gln Ser Pro Gln Ala Leu Ile Phe Leu Ala Ser Asn Arg His
174   65      70      75
176 act ggt gtc cct gct cga ttc aca ggc agt gga tct ggg aca gat ttc      287
177 Thr Gly Val Pro Ala Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe
178 80      85      90      95
180 act ctc acc att aac aat gtg aaa tct gaa gac ctg gca gat tat ttc      335
181 Thr Leu Thr Ile Asn Asn Val Lys Ser Glu Asp Leu Ala Asp Tyr Phe
182   100     105     110
184 tgt cta caa cat tgg aat tat cct ctc acg ttc ggc tgc ggg aca aag      383
185 Cys Leu Gln His Trp Asn Tyr Pro Leu Thr Phe Gly Ser Gly Thr Lys
186   115     120     125
188 ttg gaa ata aaa cgg gct gat gct gca cca act gta tcc atc ttc cca      431
189 Leu Glu Ile Lys Arg Ala Asp Ala Ala Pro Thr Val Ser Ile Phe Pro
190   130     135     140
192 cca tcc agt gag cag tta aca tct gga ggt gcc tca gtc gtg tgc ttc      479
193 Pro Ser Ser Glu Gln Leu Thr Ser Gly Gly Ala Ser Val Val Cys Phe
194   145     150     155
196 ttg aac aac ttc tac ccc aaa gac atc aat gtc aag tgg aag att gat      527
197 Leu Asn Asn Phe Tyr Pro Lys Asp Ile Asn Val Lys Trp Lys Ile Asp
198 160     165     170     175
200 ggc agt gaa cga caa aat ggc gtc ctg aac agt tgg act gat cag gac      575
201 Gly Ser Glu Arg Gln Asn Gly Val Leu Asn Ser Trp Thr Asp Gln Asp
202   180     185     190
204 agc aaa gac agc acc tac agc atg agc acc ctc acg ttg acc aag      623
205 Ser Lys Asp Ser Thr Tyr Ser Met Ser Ser Thr Leu Thr Leu Thr Lys
206   195     200     205
208 gac gag tat gaa cga cat aac agc tat acc tgt gag gcc act cac aag      671
209 Asp Glu Tyr Glu Arg His Asn Ser Tyr Thr Cys Glu Ala Thr His Lys
210   210     215     220
212 aca tca act tca ccc att gtc aag agc ttc aac agg gga gag tgt tag      719
213 Thr Ser Thr Ser Pro Ile Val Lys Ser Phe Asn Arg Gly Glu Cys
214   225     230     235

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```

216 taa tct aga gtt aag cgg ccg caa tcg agg ggg ggc ccg gta ccc caa      767
217   Ser Arg Val Lys Arg Pro Gln Ser Arg Gly Gly Pro Val Pro Gln
218       240                245                250
220 ttc gcc cta tag ggg ngc cgt att aca att cac tgg gcg gcg gtt ttc      815
221 Phe Ala Leu      Gly Xaa Arg Ile Thr Ile His Trp Ala Ala Val Phe
222   255                260                265
224 aan
225 Xaa
229 <210> SEQ ID NO: 3
230 <211> LENGTH: 238
231 <212> TYPE: PRT
232 <213> ORGANISM: Mus musculus
234 <220> FEATURE:
235 <221> NAME/KEY: misc_feature
236 <222> LOCATION: (1)..(1)
237 <223> OTHER INFORMATION: The 'Xaa' at location 1 stands for Ser, Gly, Arg, or Cys.
239 <400> SEQUENCE: 3
W--> 241 Xaa His Asn Pro Ile Pro Met Pro Thr Ala Ala Ala Gly Leu Leu Leu
242   1           5           10           15
245 Leu Ala Ala Gln Pro Ala Met Ala Glu Leu Val Met Thr Gln Ser Pro
246       20           25           30
249 Lys Phe Met Ser Thr Ser Ile Gly Asp Arg Val Asn Ile Thr Cys Lys
250       35           40           45
253 Ala Thr Gln Asn Val Arg Thr Ala Val Thr Trp Tyr Gln Gln Lys Pro
254   50           55           60
257 Gly Gln Ser Pro Gln Ala Leu Ile Phe Leu Ala Ser Asn Arg His Thr
258 65           70           75           80
261 Gly Val Pro Ala Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr
262       85           90           95
265 Leu Thr Ile Asn Asn Val Lys Ser Glu Asp Leu Ala Asp Tyr Phe Cys
266       100          105          110
269 Leu Gln His Trp Asn Tyr Pro Leu Thr Phe Gly Ser Gly Thr Lys Leu
270       115          120          125
273 Glu Ile Lys Arg Ala Asp Ala Ala Pro Thr Val Ser Ile Phe Pro Pro
274       130          135          140
277 Ser Ser Glu Gln Leu Thr Ser Gly Gly Ala Ser Val Val Cys Phe Leu
278 145          150          155          160
281 Asn Asn Phe Tyr Pro Lys Asp Ile Asn Val Lys Trp Lys Ile Asp Gly
282       165          170          175
285 Ser Glu Arg Gln Asn Gly Val Leu Asn Ser Trp Thr Asp Gln Asp Ser
286       180          185          190
289 Lys Asp Ser Thr Tyr Ser Met Ser Ser Thr Leu Thr Leu Thr Lys Asp
290       195          200          205
293 Glu Tyr Glu Arg His Asn Ser Tyr Thr Cys Glu Ala Thr His Lys Thr
294       210          215          220
297 Ser Thr Ser Pro Ile Val Lys Ser Phe Asn Arg Gly Glu Cys
298 225          230          235
301 <210> SEQ ID NO: 4
302 <211> LENGTH: 18

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## RAW SEQUENCE LISTING

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Output Set: N:\CRF4\03012007\J579203.raw

```

303 <212> TYPE: PRT
304 <213> ORGANISM: Mus musculus
306 <400> SEQUENCE: 4
308 Ser Arg Val Lys Arg Pro Gln Ser Arg Gly Gly Pro Val Pro Gln Phe
309 1          5          10          15
312 Ala Leu
316 <210> SEQ ID NO: 5
317 <211> LENGTH: 13
318 <212> TYPE: PRT
319 <213> ORGANISM: Mus musculus
321 <220> FEATURE:
322 <221> NAME/KEY: misc_feature
323 <222> LOCATION: (2)..(2)
324 <223> OTHER INFORMATION: The 'Xaa' at location 2 stands for Ser, Gly, Arg, or Cys.
326 <220> FEATURE:
327 <221> NAME/KEY: misc_feature
328 <222> LOCATION: (13)..(13)
329 <223> OTHER INFORMATION: The 'Xaa' at location 13 stands for Lys, or Asn.
331 <400> SEQUENCE: 5
W--> 333 Gly Xaa Arg Ile Thr Ile His Trp Ala Ala Val Phe Xaa
334 1          5          10
337 <210> SEQ ID NO: 6
338 <211> LENGTH: 292
339 <212> TYPE: PRT
340 <213> ORGANISM: Mus musculus
343 <220> FEATURE:
344 <221> NAME/KEY: misc_feature
345 <222> LOCATION: (3)..(3)
346 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
348 <220> FEATURE:
349 <221> NAME/KEY: misc_feature
350 <222> LOCATION: (11)..(11)
351 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
353 <220> FEATURE:
354 <221> NAME/KEY: misc_feature
355 <222> LOCATION: (13)..(13)
356 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
358 <220> FEATURE:
359 <221> NAME/KEY: misc_feature
360 <222> LOCATION: (23)..(23)
361 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
363 <220> FEATURE:
364 <221> NAME/KEY: misc_feature
365 <222> LOCATION: (269)..(269)
366 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
368 <220> FEATURE:
369 <221> NAME/KEY: misc_feature
370 <222> LOCATION: (283)..(283)
371 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/579,203

DATE: 03/01/2007  
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Input Set : N:\efs\03\_01\_07\10579203\_efs\2902076\_3\_SequenceListing.txt  
Output Set: N:\CRF4\03012007\J579203.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 1,239,240,246,249,261  
Seq#:2; N Pos. 1,3,783,818  
Seq#:2; Xaa Pos. 1,258,269  
Seq#:3; Xaa Pos. 1  
Seq#:5; Xaa Pos. 2,13  
Seq#:6; Xaa Pos. 3,11,13,23,269,283,292  
Seq#:7; N Pos. 7,31,37,69,848,864,873,875  
Seq#:7; Xaa Pos. 3,11,13,23,282,291  
Seq#:8; Xaa Pos. 3,11,13,23  
Seq#:9; Xaa Pos. 14,23  
Seq#:10; N Pos. 3,8

## VERIFICATION SUMMARY

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Input Set : N:\efs\03\_01\_07\10579203\_efs\2902076\_3\_SequenceListing.txt

Output Set: N:\CRF4\03012007\J579203.raw

L:57 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
M:341 Repeated in SeqNo=1  
L:156 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
M:341 Repeated in SeqNo=2  
L:241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
L:333 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0  
L:380 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
M:341 Repeated in SeqNo=6  
L:507 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0  
M:341 Repeated in SeqNo=7  
L:611 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0  
M:341 Repeated in SeqNo=8  
L:696 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
M:341 Repeated in SeqNo=9  
L:725 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0